

FIG. 1

2/15

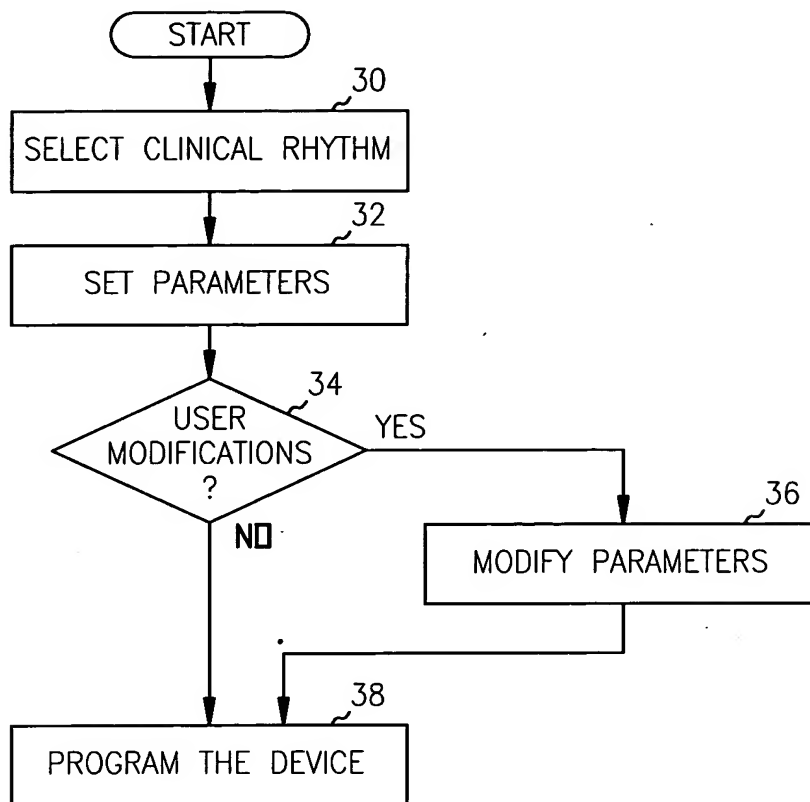


FIG. 2

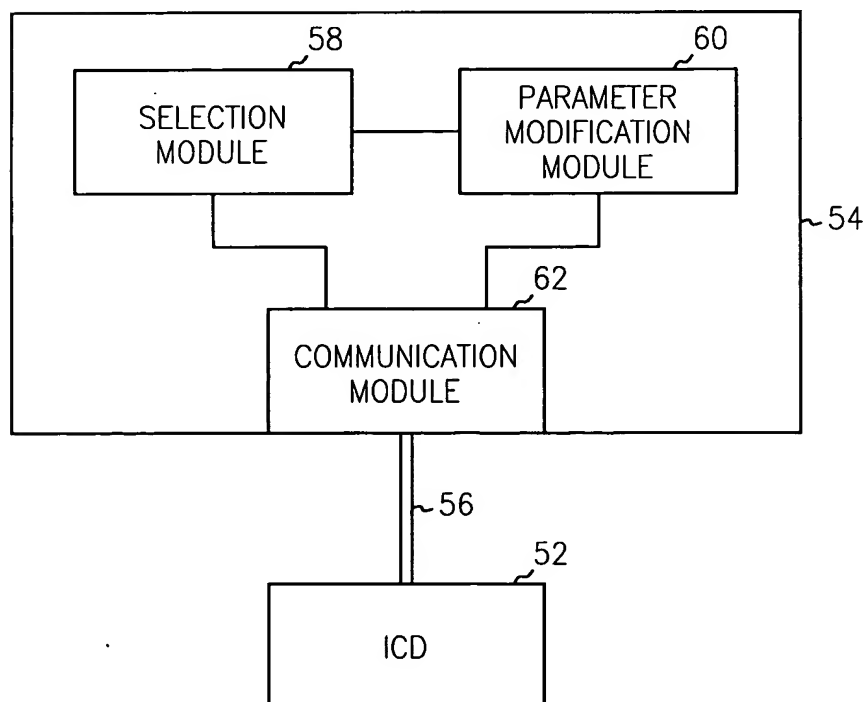


FIG. 3

3/15

Utilities Tachy Mode Monitor only

Surface Atrial Vent

AS VS AS VS AS VS AS VS 70

Zones

Zones	Dx	Rx
1	2.5 sec SRD	125 bpm VT-1
2	V>A, A Fib, Onset	145 bpm VT
3	ATP 5J 10J 31J	165 bpm VT

DDDR 60-90 ppm MTR 80 ppm

VT-1 Detection

Initial Detection

Rate 145 bpm
Interval 414 ms
Duration 2.5 sec

Redetection

Redetection 1.0 sec
Duration 1.0 sec
Post-shock 1.0 sec

Detection Enhancements

On ☐

☒ Atrial Tachyarrhythmia Discrimination

☒ Sinus Tachycardia Discrimination

Cancel Changes

System Summary Quick Check Tachy Parameters Brady Parameters Setup Therapy History Diagnostic Evaluation EP Test

FIG. 4

	VT-1 ZONE	VT ZONE	VF ZONE
1-ZONE CONFIGURATION	NONE		
2-ZONE CONFIGURATION		V RATE > A RATE AFIB RATE THRESHOLD STABILITY ONSET SRD SHOCK IF UNSTABLE ^a	NONE
3-ZONE CONFIGURATION	V RATE > A RATE AFIB RATE THRESHOLD STABILITY ONSET SRD	SHOCK IF UNSTABLE	NONE

^a. SHOCK IF UNSTABLE CANNOT BE PROGRAMMED ON IN THE SAME ZONE AS OTHER DETECTION ENHANCEMENTS THAT ARE PROGRAMMED TO INHIBIT THERAPY (ONSET, STABILITY, AND AFIB RATE THRESHOLD)

FIG. 5

5/15

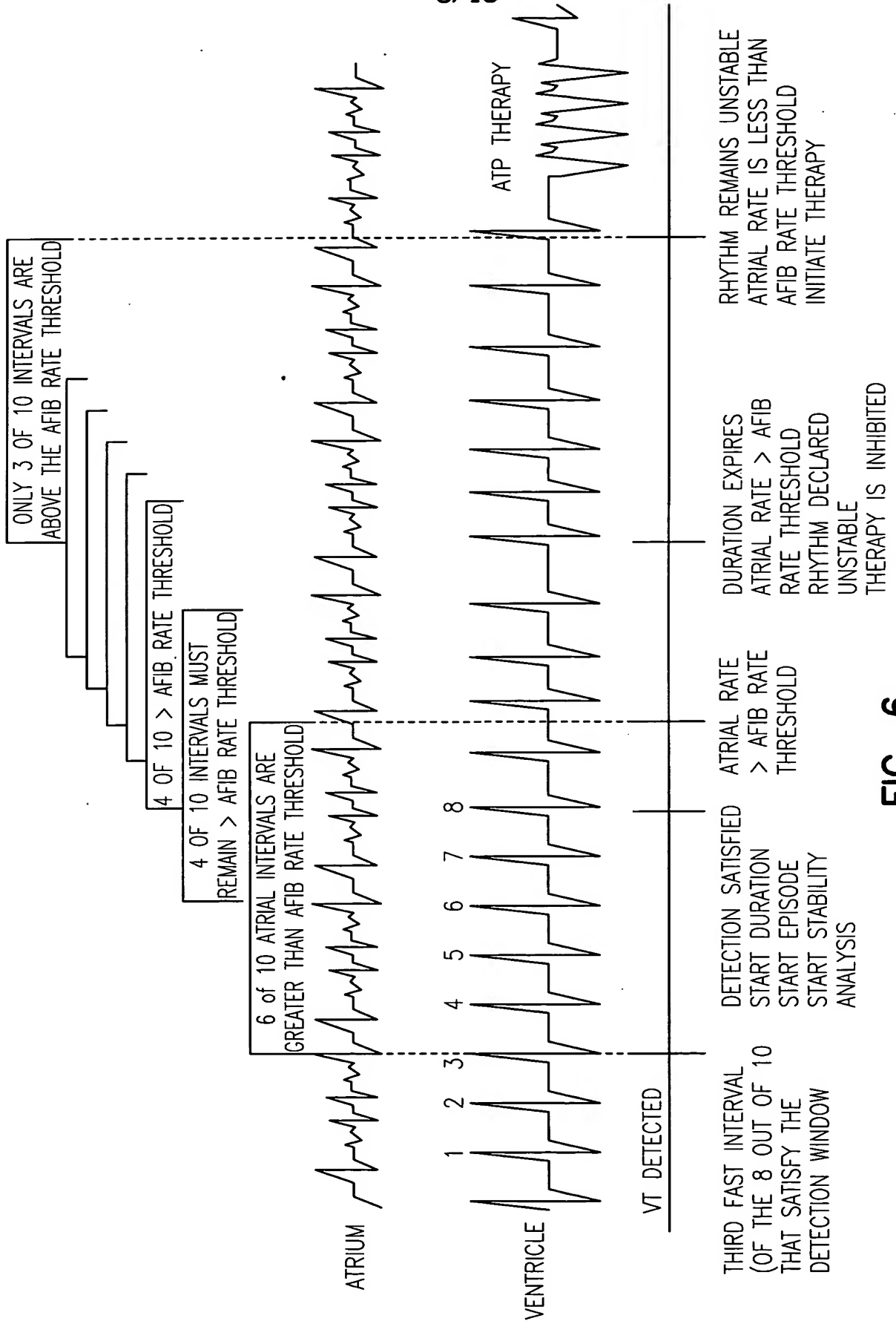


FIG. 6

DETECTED RHYTHM	AFIB RATE THRESHOLD WITH STABILITY
GRADUAL, UNSTABLE A > AFIB RATE THRESHOLD	INHIBIT UNTIL V > A OR SRD (IF ON)
GRADUAL, UNSTABLE A < AFIB RATE THRESHOLD	INHIBIT UNTIL V > A OR SRD (IF ON)
SUDDEN, UNSTABLE A > AFIB RATE THRESHOLD	INHIBIT UNTIL STABLE, V > A OR SRD (IF ON)
SUDDEN, UNSTABLE A < AFIB RATE THRESHOLD	TREAT IMMEDIATELY AT END OF DURATION ^a
GRADUAL, STABLE A > AFIB RATE THRESHOLD	TREAT IMMEDIATELY AT END OF DURATION ^b
GRADUAL, STABLE A < AFIB RATE THRESHOLD	INHIBIT UNTIL V > A OR SRD (IF ON)
SUDDEN, STABLE A > AFIB RATE THRESHOLD	TREAT IMMEDIATELY AT END OF DURATION
SUDDEN, STABLE A < AFIB RATE THRESHOLD	TREAT IMMEDIATELY AT END OF DURATION

- a. IF V RATE > A RATE IS PROGRAMMED ON AND IS FALSE, THEN THERAPY WILL BE INHIBITED IF THE RHYTHM IS UNSTABLE
- b. IF V RATE > A RATE IS PROGRAMMED ON AND IS FALSE, THERAPY WILL STILL BE INITIATED BECAUSE THE RHYTHM IS DECLARED STABLE

FIG. 7

DETECTED RHYTHM	POSSIBLE COMBINATIONS	POSSIBLE COMBINATIONS
	ONSET AND STABILITY ^a	ONSET OR STABILITY
GRADUAL, UNSTABLE	INHIBIT UNTIL $V > A$ OR SRD (IF ON)	INHIBIT UNTIL RHYTHM BECOMES STABLE, $V > A$, OR SRD (IF ON)
GRADUAL, STABLE	INHIBIT UNTIL $V > A$ OR SRD (IF ON)	TREAT IMMEDIATELY AT END OF DURATION
SUDDEN, UNSTABLE	INHIBIT UNTIL RHYTHM BECOMES STABLE, OR $V > A$, OR SRD (IF ON)	TREAT IMMEDIATELY AT END OF DURATION
SUDDEN, STABLE	TREAT IMMEDIATELY AT END OF DURATION	TREAT IMMEDIATELY AT END OF DURATION

^a. THE AND COMBINATION IS THE NOMINAL SETTING WHEN BOTH ARE ENABLED

FIG. 8

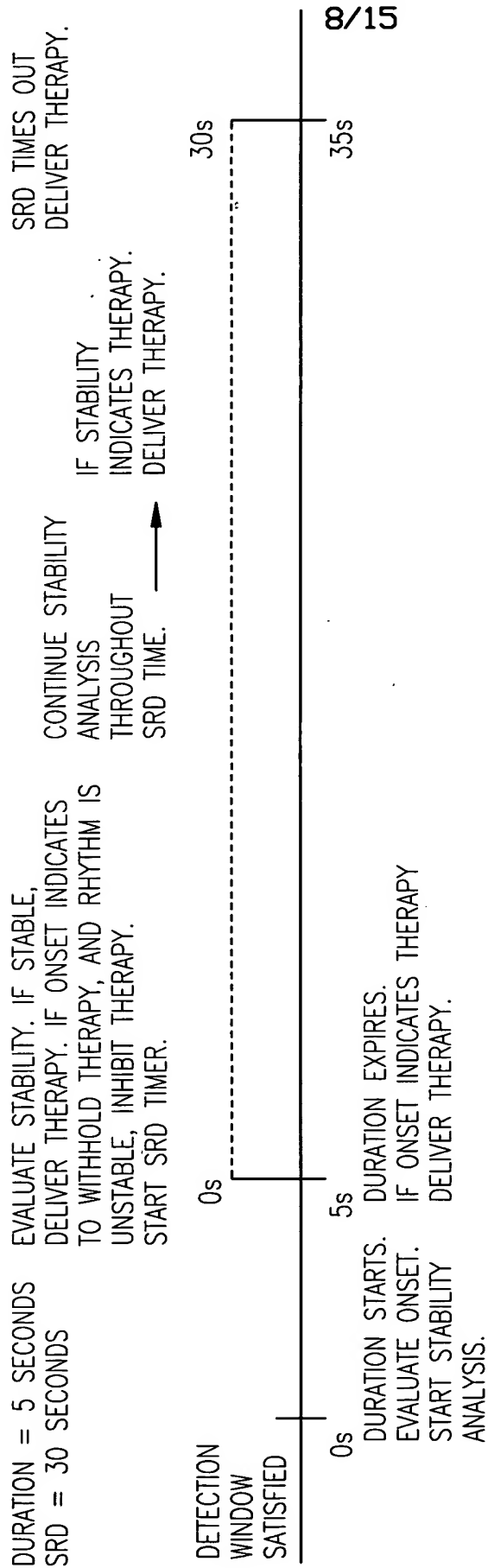


FIG. 9

9/15

92

UT-1 Detection Enhancements

Initial	Present	Change	Redetection	Present	Change
V Rate > A Rate	On		Post-Shock	On	
A Fib Rate Threshold	Off		V Rate > A Rate	10	
Stability	10		A Fib Rate Threshold	9	
And		Or	Stability	0:30	
Onset	9%		Sustained Rate Duration		
Sustained Rate Duration	0:30				

bpm
ms
m:s

bpm
ms
m:s

Close

Cancel Changes

FIG. 10

	RHYTHM DISCRIMINATION AVAILABLE PER ZONE		
	VT-1 ZONE	VT ZONE	VF ZONE
3-ZONE CONFIGURATION	ATRIAL TACHYARRHYTHMIA SINUS TACHYCARDIA	POLYMORPHIC VT	NONE
2-ZONE CONFIGURATION		ATRIAL TACHYARRHYTHMIA SINUS TACHYCARDIA OR POLYMORPHIC VT	NONE

FIG. 11

PARAMETER	ATRIAL TACHYARRHYTHMIA	SINUS TACHYCARDIA	POLYMORPHIC VT
V > A	ON	ON	
A FIB RATE THRESHOLD	200 MIN ⁻¹		
STABILITY (INHIBIT)	10 ms		
ONSET (INITIAL DETECTION ONLY)		9 %	
SRD INITIAL REDETECTION	0:30 MINUTES:SECONDS 0:15 MINUTES:SECONDS	0:30 MINUTES:SECONDS	
SHOCK IF UNSTABLE			30 MS

FIG. 12

PARAMETER	ATRIAL TACHYARRHYTHMIA	SINUS TACHYCARDIA	POLYMORPHIC VT
STABILITY (INHIBIT)	30 ms		
ONSET (INITIAL DETECTION ONLY)		9 %	
SRD INITIAL REDETECTION	0:30 MINUTES:SECONDS 0:15 MINUTES:SECONDS	0:30 MINUTES:SECONDS	
SHOCK IF UNSTABLE			30 MS

FIG. 13

13/15

92

UT-1 Detection

Initial	Present	Change	Redetection	Present	Change
Rate	160	145 bpm	Redetection Duration	1.0	sec
Interval	375	415 ms	Post-shock Duration	1.0	sec
Duration	2.5	sec			

☐ Detection Enhancements
 ☒ Atrial Tachyarrhythmia Discrimination
 ☒ Sinus Tachycardia Discrimination

Present: On
 Change:

Cancel Changes

FIG. 14

14/15

Utilities ▼ Tachy Mode ▼ Monitor only

Surface _____

Atrial _____

Vent _____

A/V _____

A/S _____

V/S _____

AS VS AS VS AS VS AS VS AS VS

125 bpm VT-1 145 bpm VT 165 bpm

2.5 sec SRD 2.5 sec 1.0 sec

V>A, A Fib, Onset

ATP 5J 10J 31J AT PX2 5J 10J 31J 10J 20J 31J+

Zones

1 2 3

DDDR 60-90 ppm MTR 80 ppm

VT-1 Detection

Initial Detection	Present	Change	Redetection	Present	Change
Rate	145	bpm	Redetection	1.0	sec
Interval	414	ms	Post-shock	1.0	sec
Duration	2.5	sec			

94 { ☒ Detection Enhancements On ☐

90 { ☒ Polymorphic VT Discrimination

System Summary

Quick Check

Tachy Parameters

Brady Parameters

Setup

Therapy History

Diagnostic Evaluation

EP Test

Cancel Changes

FIG. 15

92

92

UT Detection Enhancements

<u>Initial</u>	<u>Present</u>	<u>Change</u>
Shock if Unstable	10	<input type="text"/> ms

Cancel Changes

Close

FIG. 16